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### Spring Semester Evening and

### Saturday Classes

GRADUATE SCHOOL • U. S. DEPARTMENT OF AGRICULTURE

Independence Avenue, between 12th and 14th Streets, Southwest, Washington, D. C. 20250 • 447-6337

Register by mail now until December 29.

Register in person January 8-13.

- Courses for High School and College Graduates
- Training for Government Employees and Others



A CENTER FOR CONTINUING EDUCATION

### REGISTER BY MAIL UNTIL DECEMBER 29 **REGISTER IN PERSON JANUARY 8-13**

### **General Information**

Registration Week: January 8-13, in the Patio (first floor) of the Administration Building, U. S. Department of Agriculture, 14th Street and Independence Avenue, S.W., Washington, D. C. 20250. Monday-Friday (January 8-12): 11:00 a.m.-6:30 p.m.

Saturday (January 13 only): 9:00 a.m.-4:00 p.m.

Procedures: Registration may be made in person between January 8 and 13 or by mail before December 29. For registration by mail, use the registration form inside the back cover. Include check or purchase order with registration form, and mail to: Business Office, Graduate School, U. S. Department of Agriculture, 14th Street and Independence Avenue, S.W., Washington, D. C. 20250. Transcripts of previous educational records are not required, but graduation from high school, or the equivalent, is the general prerequisite for all courses. The more advanced courses have specific prerequisites, which are listed in the course descriptions contained in the Catalog.

To Agencies and Students attending under Government Employees Training Act (Public Law 85-507): The Agency Authorization Form must be accompanied by our registration form. Both must be submitted before registration is completed. Students should make arrangements with training offices well in advance of registration week.

Training Officers: You may contract with us for evening and Saturday classes at your location as follows:

For a 3 credit course: up to 20 students for \$1620

21-30 students for \$2430

For a 2 credit course: up to 20 students for \$1180

21-30 students for \$1770

Registration will be conducted on the first night of class at your location. At least two weeks notice is requested. Contact Mr. Charles Vinick—447-6337. Fees for classes during normal working hours that require special handling are somewhat higher. Contact Mr. Dee Henderson—447-3247.

Social Security Number: Bring to registration. This is important!

Academic Credit: Any student wishing to receive credit elsewhere for Graduate School courses should consult in advance with the college or university in which he plans to take a degree.

Transcripts: Transcripts are issued upon written request. There is a charge of \$2.00 per copy. NO TRANSCRIPTS ARE ISSUED DURING REGISTRATION.

Counseling: Members of the Graduate School staff are on hand for counseling before and during the registration period.

Fees: The charge for tuition is in general \$22 for each credit hour, payable at the time of registration. However, arrangements may be made to pay one-half of the tuition at that time. The second payment is due by February 23. IF PAYMENT IS MADE IN FULL AT THE TIME OF REGISTRATION, THERE IS A \$2.00 DISCOUNT FOR EACH CREDIT HOUR. HOWEVER, WHEN BILLING IS NECESSARY, THE DISCOUNT IS NOT APPLICABLE.

Late Registrations: Late registrations will be accepted Monday, January 15 through Friday, January 19, with permission of the Registrar's Office, but only if space permits. There is a \$2.00 charge per course for late registrations.

Course Transfers: Until February 3, students may transfer from one course to another without extra charge, but only if space permits. After that date, there is a transfer fee of \$1.00 per course. Transfers may be made only with the permission of the Registrar's Office.

Veterans: A veteran eligible for training under the Veterans Readjustment Benefits Act of 1966 (Public Law 89-358) should consult the Registrar's Office well in advance of registration so that approval can be obtained from the Veterans Administration. In order to receive benefits, you must notify the Registrar's Office each semester you enroll and whenever you change courses.

Class Schedule: Classes begin Monday, January 22, through Saturday, January 27, and end the week of May 5.

### **BOOKSTORE INFORMATION: 447-6070**

Textbooks: Textbooks can be purchased at the Graduate School Bookstore, Room 1404, South Agriculture Building. The Bookstore hours are, as follows:

January 8-January 19

Monday-Friday: 11:00 a.m.-6:30 p.m. Saturday (January 13 only): 9:00 a.m.-4:00 p.m.

January 22-February 2

Monday-Friday: 11:00 a.m.-6:30 p.m. Saturday (January 27 only) 8:30 a.m.-2:00 p.m.

February 5-February 16 Monday-Friday: 11:00 a.m.-6:15 p.m.

Beginning February 20 through the end of the semester Monday-Friday: 11:00 a.m.-1:00 p.m. and 4:30 p.m.-6:15 p.m.

<u>Withdrawals and Refunds:</u> When a student withdraws from a course, a refund is granted in accordance with the following schedule:

Through February 3: tuition less \$5.00 for each course.

Register by Mail before December 29

February 5-17: 50 per cent of total tuition only. No other fees refunded.

Laboratory fees are refunded only during the first week of classes. Notice of withdrawal must be made in writing to the Registrar's Office. Forms are available for that purpose. Refunds are computed as of the date that notice of withdrawal is received in the Registrar's Office. No refunds will be granted for any reason after February 17.

Credit-Audit Changes: The deadline is March 3. Notice must be made in writing to the Registrar's Office.

Parking Space (USDA)—Cafeteria: Space for parking is available after 5:30 p.m. for students and faculty in the parking court on the west side of the Administration Building. There is also space on the Mall, north of the Administration Building. Sandwiches are available in Room 6857, South Building, adjacent to the fourth wing cafeteria and in the basement in the Administration Building.

Office Hours: The Registrar's Office, Room 1031, South Building, U. S. Department of Agriculture, 14th Street and Independence Avenue, S.W., Washington, D. C. 20250, is open from 8:45 a.m. to 6:15 p.m., Monday through Friday.

### **Telephone 447-6337**

### SCHEDULE OF CLASSES

_	r in Person		T 4 . 4	D	m·		Classes begin Januar	
No.	Course Tit	le (Cr.)	Instructor	Day	Time	Fee	Catalog Page	Bldg
			BIOLOGI	CAL SCI	ENCES			
E1249		llution: Its Ef	fects on Man	(3) Sute	r Mon 6	:10-8:40	\$66 and \$1	1
E1470		or Ecomanage	rs (2) Band fee p. 32	urski and	Hofman	Tues 6:1	0-8	26
E1560	Fundame	ntals of Medic	al Microbiology	v (3) Fu	sillo Thu	rs 6:10-8	:40 \$66 p. 33	50
E1524	General M	Aycology (3)	Mislivec We	d 6:10-8:40	) \$66 p.	33		3
E1426	Pathology \$66 p.		Organs and S	ystems (3	) Burns	Tues 6:	10-8:40	50
E1420	Plant Ph	ysiology (2)	Woodstock T	ues 4:45-0	6:35 \$44	and \$1 m	naterials fee p. 34	40
E1580	Biochemis	try and Physi-	ology of Fruits	(2) Fa	ust Wed	4:45-6:35	\$44 p. 35	40
E56661	Biological	Oceanography	(Second Ha	lf) (2) I	Ioubrick	Wed 6:10	0-8 \$44 p. 115	7
Natura	al History F	ield Studies						
(Registe	er January 8	-13 for all coun	rses)					
E1132	(8 week	s beginning M	tdoors (1) L (arch 19) April 2, 16, 30.					26
E1142	Plant Ide fee p.	ntification I 36 (8 weeks		and Johnsonary 24)	on Wed 6	3:10-8 \$2	22 and \$2 laboratory	4.4
E1145	Plant Ide \$2 labor	ntification II	(1) Donnald 36 (8 weeks b April 4, 11, 18,	and John	son Wed Iarch 28.)	6:10-8	\$22 and	4.4
E1130	Physical (8 week Field tr	Environment is beginning M ips March 24;	I: Geology (1 arch 21.) (Le April 7, 21.)	l) Davies ctures Mar	Wed 6: ch 21; Ap	10-8 \$22 ril 4, 18;	p. 36 May 2.	26
E1133		on to Ecology s beginning Ja	(1) Gibson an. 22.)	Mon 6:1	0-8 \$22	p. 37		26
E1125	\$22 p.	37 (8 weeks	III: Soils and beginning Marc rch 31; April 1	ch 26.) (I	e (1) Si Lectures M	mpson Narch 26;	Mon 6:10-8 April 9, 23;	26
E1139	Wildlife (8 week	Populations (	1) Crouse Ti anuary 25.)	hurs 6:10-	8 <b>\$22</b> p.	. 37		26
E1141	(8 week	mmunities II: s beginning M ips March 31;	arch 27.) (Le	F <b>orest</b> s (1 ctures Mar	Osborn ch 27; Ap	Tues 6 ril 10, 24	3:10-8 \$22 p. 38 ; May 8.	26
E1140	Land Use (8 week	Principles	(1) Osborn and anuary 24.)	nd Associa Lectures Ja	tes Wed in. 24, 31;	6:10-8 Feb. 7, 1	\$22 p. 38 4, 21; March 7.	26
E1152	Conservat (8 week	ion in Action	(1) Mergen arch 20.) (Le	and Wag ctures Mar	ner Tues ch 20; Ap	6:10-8 ril 3, 17;	\$22 p. 38 May 1.	1
E1143				)-8 \$22 n	. 39 (8 w	eeks begi	nning January 23.)	26
E1144	Rocks an (8 week	d Fossils (1) s beginning M	Withington arch 28.) (Le April 14, 28.)	Wed 6:10	-8 \$22 r	. 39		26

	Course Title (Cr.) Instructor Day Time Fee Catalog Page B	ldg.
*E2165	Literature of the Potomac Valley (1) Wesely Mon 6:10-8 \$22 and \$2 materials fee p. 51 (8 weeks beginning January 22)	.1
E1136	Nature Teaching—Workshop (1) Shuke Thurs 6:10-8 (first meeting only) and Sat 10-12) \$22 p. 39 (8 weekends beginning March 22.) (Lectures March 22, 31: April 14, 28; May 12.)	d 13
*E1161	Current Conservation Philosophy (1) Briggs Thurs 6:10-8 (first meeting only) and Sat 10-12 822 p. 40 (8 weeks beginning January 25.) (Lectures Jan. 25; Feb. 3, 10, 17, 24; March 3, 10.)	d 13
	COMMUNICATION AND LANGUAGE ARTS	
Commu	nications Media and Skills	
E2226	Official Writing (3) McClarren and Schaal Sat 9-11:30 \$66 p. 42	1
E2235 E2281	Fiction Writing—Workshop (2) Field Thurs 6:10-8 \$44 p. 42  Advanced Feature Writing (2) Dolan Wed 6:30-8:20 \$44 p. 42	10
		14
	isual Communication	
E2120	Audio-Visual Communication: Principles and Techniques (3) Fox Mon 6:10-8:40 \$66 and \$25 laboratory fee p. 43	35
E2122	Video Tape Production (3) Ibbott and Onder Sat 9-11:30 866 and 825 laboratory fee p. 43	35
E2123 E2124	Media Administration (3) Fox Wed 6:10-8:40 866 p. 43  Maintenance of Audio-Visual Equipment: Applied Physics (3) Peck Wed 6:10-8:40 866 and \$25 laboratory fee p. 44	35 35
E2276	Documentary and Instructional Film and Television (2) Harris Thurs 6:10-8 \$44 p. 44	1
Graphic	Arts	
E2188B	Graphic Arts in Federal Government (Second Half) (2) Southee and Taylor	1
E2179	Wed 6:10-8 \$44 p. 44 Environmental Design (2) Granahan Wed 6:10-8 \$44 p. 44	1
E2186	Creative Illustration (2) Auld Tues 6:10-8 \$44 p. 44	14
E2311	Art, Layout, and Design for Reproduction (2) Robinson and Taylor Tues 6:10-8 \$44 p. 45	2
E2185	Layout in Visual Communication (2) Jessup Mon 6:10-8 \$44 p. 45	5
E2180 E2182	Creative Design (2) Baka Tues 6:10-8 \$44 p. 45  Exhibit Design and Fabrication (2) Schleyer Tues 6:10-8 \$44 p. 45	1
E2181 E2237	Production and Management of Graphics (2) Hopewell Mon 6:10-8 \$44 p. 45 Printing, Layout, and Design (2) Murow and Associates Tues 6:10-8 \$44 p. 47	4
Editing		
E2225	Principles of Editing and Their Application (3) \$66 p. 46	
	Section 01 Carroll Wed 6:10-8:40 Section 02 Smith Sat 9-1 (10 weeks)	1
E2239	Intermediate Editing (3) \$66 p. 46 Section 01 Sharp Thurs 6:10-8:40	1
	Section 01 Sharp Thurs 6:10-8:40 Section 02 Tannenbaum Sat 9-1 (10 weeks)	1
E2360	Advanced Practice in Editing (3) Dalton Thurs 6:10-8:40 \$66 and \$1 materials fee p. 46	1
E2220	Indexing (2) Kelly Sat 9-12 (10 weeks) \$44 p. 47	1
E2237	Printing, Layout, and Design (2) Murow and Associates \$44 p. 47	1
*E2424	Seminar in Editing (3) Fitton Wed 6:10-8:40 866 (Review and analysis of the editorial problems that arise in the planning, preparation, production, printing, and management of publications. Special emphasis is placed on the individual student through selective readings, projects, discussions, research, and on-the-job problems. Open to students who have completed all other courses required for the Certificate of Accomplishment in Editorial Practices and to working editors who have the consent of the instructor.)	1
English-	—Grammar and Writing	
E2095	Improving Reading Ability (non-credit) Henderson Mon and Wed 6:10-8 (8 weeks) \$44 \ p. 47	35
E2029	Spelling and Basic Vocabulary (non-credit) Neuman Mon 6:10-8 \$44 p. 47	7
E2112	Practical English Usage (2) \$44 p. 48 Section 01 Holt Tues 6:10-8 Section 02 Amabile Thurs 6:10-8	7 8
E2035	English for Secretaries (non-credit) Holt Wed 6:10-8 \$44 p. 48	8
E2038 E2052	English for Foreigners I (non-credit) Weeks Mon 6:10-8 \$44 p. 48  English for Foreigners II (non-credit) Weeks Tues 6:10-8 \$44 p. 48	1
2000	English for Foreigners III (non-credit) Weeks Wed 6:10-8 \$44 p. 48	1
E2053		1
E2119	Vocabulary Building (3) Farrar Wed 6:10-8:40 \$66 p. 48	
E2119 E2222A	English Composition (First Half) (3) Reed Mon 6:10-8:40 \$66 p. 48	30
E2119		

E2228 Public Speaking for Beginners (2) Miller Wed 6:10-8 \$44 and \$1 materials fee p. 49  *E2338 The Dynamics of Persuasion (2) Miller Tues 6:10-8 \$44 and \$2 materials fee p. 49  E2246 Voice and Diction (2) Baker Tues 6:10-8 \$44 p. 50  Literature  E2216 American Literature II (3) Instructor To Be Announced Thurs 6:10-8:40	11 11
fee p. 49 *E2338 The Dynamics of Persuasion (2) Miller Tues 6:10-8 \$44 and \$2 materials fee p. 49 E2246 Voice and Diction (2) Baker Tues 6:10-8 \$44 p. 50  Literature  E2216 American Literature II (3) Instructor To Be Announced Thurs 6:10-8:40	
*E2338 The Dynamics of Persuasion (2) Miller Tues 6:10-8 \$44 and \$2 materials fee p. 49  E2246 Voice and Diction (2) Baker Tues 6:10-8 \$44 p. 50  Literature  E2216 American Literature II (3) Instructor To Be Announced Thurs 6:10-8:40	11
E2246 Voice and Diction (2) Baker Tues 6:10-8 \$44 p. 50  Literature  E2216 American Literature II (3) Instructor To Be Announced Thurs 6:10-8:40	
E2216 American Literature II (3) Instructor To Be Announced Thurs 6:10-8:40	1
200 p. 30	1
*E2165 Literature of the Potomac Valley (1) Wesely Mon 6:10-8 (8 weeks) \$22 and \$2	1
materials fee p. 51 E2330B Great Books (Second Half) (2) Ruppert Tues 6:10-8 \$44 p. 51	30
(Reading List A) *E2372 Modern American Drama (2) Nannes Wed 6:10-8 \$44 p. 52	5
Foreign Languages	
E2209 Introduction to Linguistics (2) Hutchinson Mon 6:10-8 \$44 p. 53 E2219 Principles of Translation (3) Duncan Wed 6:10-8:40 \$66 p. 53 (Note deletion of prerequisite: Undergraduate major or minor in French no required. Ability to write good expository English.)	8 7
French	
E2253A Elementary French (First Half) (3) Bargin Wed 6:10-8:40 \$66 p. 54  E2253B Elementary French (Second Half) (3) Bargin Tues 6:10-8:40 \$66 p. 54	11 11
E2254B Intermediate French (Second Half) (3) Bargin Mon 6:10-8:40 \$66 p. 54	11
E2068 Reading French (non-credit) de Constant Tues 6:10-8:40 \$66 p. 54	1
E2087 Basic Conversational French (non-credit) Lawton Mon 6:10-8:40 \$66 p. 54 E2258 Advanced French Reading and Conversation (3) Bargin Thurs 6:10-8:40 \$66 p. 55	1 11
German	
E2259B Elementary German (Second Half) (3) Hoffmann Thurs 6:10-8:40 \$66 p. 55  E2262 Advanced German (3) Rose Sat 9-1 (10 weeks) \$66 p. 55	1
E2088 Basic Conversational German I (non-credit) von Luttichau Tues 6:10-8:40	11
\$66 p. 55 E2096 Basic Conversational German II (non-credit) von Luttichau Thurs 6:10-8:40 \$66 p. 56	11
E2196 Scientific German I (3) Neil Mon 6:10-8:40 \$66 p. 56 E2197 Scientific German II (3) Neil Thurs 6:10-8:40 \$66 p. 56	1 1
Italian E2270B Elementary Italian (Second Half) (3) Bauer Tues 6:10-8:40 \$66 p. 56	8
Portuguese	
E2290B Elementary Portuguese (Second Half) (3) Luxardo Wed 6:10-8:40 \$66 p. 56	1
Russian	
E2295A Elementary Russian (First Half) (3) Gerich Tues 6:10-8:40 \$66 p. 57	1
E2295B Elementary Russian (Second Half) (3) Yansen Wed 6:10-8:40 \$66 p. 57  E2296B Intermediate Russian (Second Half) (3) Gerich Thurs 6:10-8:40 \$66 p. 57	11 1
E2292 Scientific Russian I (3) Boldyreff Mon 6:10-8:40 \$66 p. 57	1
E2294 Scientific Russian II (3) Boldyreff Wed 6:10-8:40 \$66 p. 58	1
Spanish	
E2300A Elementary Spanish (First Half) (3) Lasaga Tues 6:10-8:40 \$66 p. 58	1
E2300B Elementary Spanish (Second Half) (3) Otero Mon 6:10-8:40 \$66 p. 58 E2301B Intermediate Spanish (Second Half) Brouwer Thurs 6:10-8:40 \$66 p. 58	30
E2302B Advanced Spanish Conversation and Composition (Second Half) (2) Lasaga	1
Wed 6:10-8 \$44 p. 58  E2083 Basic Conversational Spanish I (non-credit) Otero Tues 6:10-8 \$44 p. 58  E2084 Basic Conversational Spanish II (non-credit) Otero Thurs 6:10-8 \$44 p. 58	1 1
Library Technician Program	
E2125 Introductory Course for Library Technicians (2) \$44 p. 59	
Section 01 Moran Mon 6:10-8 Section 02 Sherrod Sat 9-12 (10 weeks)	33 1
E2135 Introduction to Cataloging and Classification (2) Instructor To Be Announced Sat 9-12 (10 weeks) \$44 p. 59	1
E2139 Cataloging and Classification II (2) \$44 p. 59 Section 01 Judy Mon 6:10-8 Section 02 Judy Thurs 6:10-8	1

No.	Course Title (Cr.) Instructor Day Time Fee Catalog Page	Bldg.
E2137	Basic Reference Service and Reference Tools (2) Birch Wed 6:10-8 \$44 p. 59	1
E2136	Principles of Library Organization (2) Larkin Wed 6:30-8:20 \$44 p. 59	1
E2145	Law Librarianship (2) Braucher Thurs 6:10-8 \$44 p. 60	1
E2160	Library Technician Seminar (3) Sherrod Thurs 6:10-8:40 \$66 p. 60	1
	COMPUTER SCIENCES	
E9105	Basic Concepts of Data Processing (3) \$66 p. 61 Section 01 Suter Mon 6:10-8:40	1
	Section 02 Willey Tues 6:10-8:40	33
	Section 03 Alexander Wed 6:10-8:40 Section 04 Nicholson Sat 9-11:30 Information Storage and Retrieval by Computer (3) \$66 p. 61	8
E9106	Information Storage and Retrieval by Computer (3) \$66 p. 61 Section 01 Henke and Miller Tues 6:10-8:40	7
E9322	Section 01 Henke and Miller Tues 6:10-8:40 Section 02 Scott Wed 4:45-7:15 O.S. Operators Training System 360/370 (3) Borough Thurs 6:10-8:40	37 1
E9559B	\$66 and \$10 laboratory fee p. 61 Electronic Data Processing—General (Second Half) (3) Pinon Fri 6:10-8:40 \$66 p. 62	1
E9595	ANS COBOL Programming—Fundamentals (3) \$66 and \$1 materials fee p. 62	
	Section 01 Scott Mon 4:45-7:15 Section 02 Droz Wed 6:10-8:40	37 7
	Section 03 Quinlan Sat 9-1 (10 weeks) (\$20 laboratory fee)	1
E9345 E9563	Computer Programming: Overview (3) Giammo Wed 6:10-8:40 \$66 p. 62  Data Processing on Large-Scale Electronic Computers (3) Boo Wed 6:10-8:40	6
E9562	\$66 p. 63 ADP System—Analysis, Design, Acquisition, and Operation (3) Combs	7
	Mon 6:10-8:40 \$66 p. 63	
*E9425	Complex File Structures (3) Instructor To Be Announced Thurs 6:10-8:40 \$66 (Character of data structures and storage structures from both the programer's and the analyst's viewpoint.)	42
E9605	ADP Budget and Financial Systems (3) Ferber Tues 6:10-8:40 \$66 p. 63 Workshop in Teleprocessing (3) Prescott Sat 9-1 (10 weeks) \$66 p. 64	6
E9638 E9747	Workshop in Teleprocessing (3) Prescott Sat 9-1 (10 weeks) \$66 p. 64  ADP Installation Management (3) Lini Sat 9-1 (10 weeks) \$66 p. 64	1
E9592	IBM System 360/370 Introduction (3) \$66 p. 64	6
	Section 01 Beck Mon 6:10-8:40 Section 02 Cohen Sat 9-11:30	1
E9607	IBM 360/370 Assembly Language Coding (3) \$66 p. 65 Section 01 Johnson Wed 6:10-8:40	6
E9615	Section 02 Strite Thurs 6:10-8:40 IBM System 360/370 ANS COBOL (Actual Practice) (3) Standifer Sat 9-1	47 1
E9611	(10 weeks) \$66 and \$35 laboratory fee p. 65 IBM System 360/370 FORTRAN (3) Mattman Wed 6:10-8:40 \$66 p. 65	9
E9612 E9613	IBM System 360/370 PL/1 (3) Roberts Wed 6:10-8:40 \$66 p. 66 IBM System 360/370 O. S. Language Interface (3) Beck Wed 6:10-8:40	1 6
E9618	\$66 p. 66 IBM 360/370 O. S. Job Control Language and Core Dump Analysis (3) \$66 and	
	\$10 laboratory fee p. 66 Section 01 Impellitteri and Jarrett Wed 5:45-9:30 (10 weeks) Section 02 Rindfleisch Sat 9-1 (10 weeks) Systems Approach to ANS COBOL (3) Carper Tues 6:10-8:40 \$66 p. 66	- 1
Forno	Section 02 Rindfleisch Sat 9-1 (10 weeks)	1
E9529 E9589	FORTRAN Frogramming for Scientific and Dusiness Computers (5) warnese	1 1
E9475	Wed 6:10-8:40 \$66 p. 67 Simulation and Modelling (3) Jobe Tues 6:10-8:40	1
E9301	\$66 and \$10 laboratory fee p. 67  Modern Computer Scheduling Programs (2) Pirkle Mon 6:10-8 \$44 p. 67	8
E9762	Electronic Computer Methods for Statisticians (3) Marcus Thurs 6:10-8:40 \$66 p. 68	6
E9737B	Systems Analysis and Design (Second Half) (3) Nowotny Thurs 6:10-8:40	9
E9719	ADP Systems Design Workshop (3) Elenbaas Tues 6:10-8:40 \$66 p. 69  Map Projections and Grid Systems (3) Basile Thurs 6:10-8:40	5
E8223	\$66 and \$2 materials fee p. 150	1
	EXECUTIVE DEVELOPMENT, MANAGEMENT, AND SUPERVISION	
Financi	al Management and Accounting	
E4112A	Federal Fiscal Procedure (First Half) (2) Finotti Mon 6:10-8 \$44 p. 99 Federal Fiscal Procedure (Second Half) (2) Robbins Wed 6:10-8 \$44 p. 99	7
E4112B E4116	Federal Budgetary Procedure: Formulation and Presentation (2) \$44 p. 99	6
	Section 01 Johnson Tues 6:10-8 Section 02 Hoadley Wed 6:10-8	7
E4118	Federal Budgetary Procedure: Execution and Fund Control (2) Bartolomeo Mon 6:10-8 \$44 p. 99	11
E6635 E6046	Federal Budgetary Administration (2) Murphy Thurs 6:10-8 \$44 p. 71 Review for GS-510 Accounting Examination (non-credit) Marchetti	45 5
130040	Mon 6:10-8:40 \$66 p. 71	Ů
E6102	Introductory Accounting (3) 866 p. 72 Section 01 Tronolone Mon 6:10-8:40 Section 02 Used Physic 6:10-8:40	6 4
E6352A	Section 02 Uyeda Thurs 6:10-8:40  Principles of Accounting (First Half) (3) \$66 p. 72	4
	Section 01 Hirschhorn Mon 6:10-9:45	1 4
	Section 02 Palenski Tues 6:10-9:45	
	Section 03 Rosenberg Wed 6:10-9:45	24
Ecera	Section 04 Sitko Thurs 6:10-9:45	11
E6352B	Section 04 Sitko Thurs 6:10-9:45	

E5538 Intermediate Accounting (Second Half) (3) Lutz Tues 6:10-8:40 866 p. 73  42  4564209 Advanced Accounting—Theory and Problems (Second Half) (3) Sullivan  4564201 Advanced Accounting—Theory and Problems (Second Half) (2) Canada Mved 6:10-8 844 p. 73  456424 Pederal Government Accounting (First Half) (2) Canada Turus 6:10-8  45643 Marcounting For Non-Accountants (3) O'Brien Wed 6:10-8:40 866  45644 Marcounting For Non-Accountants (3) O'Brien Wed 6:10-8:40 866  45645 Marcounting For Non-Accountants (3) O'Brien Wed 6:10-8:40 866  45645 Marcounting (First Half) (3) Peterson Marcountant who supplies the information. Emphasizes class practice in case studies to illustrate how supplies the information. Emphasizes class practice in case studies to illustrate how supplies the information. Emphasizes class practice in case studies to illustrate how supplies the information making.)  45645 Marcounting (Second Half) (3) Millon Marcounting (Second Half) (3) Peterson Mon 6:10-8:40 866 p. 74  45645 Marcounting (Second Half) (3) Wilson Tues 6:10-8:40 866 and 32  45645 Marcounting (Second Half) (3) Wilson Tues 6:10-8:40 866 and 32  45645 Marcounting (Second Half) (2) Monson Sat 9-12 (10 weeks) 844 p. 75  45645 Marcounting (Second Half) (2) Monson Sat 9-12 (10 weeks) 844 p. 75  45645 Marcounting (Second Half) (2) Monson Sat 9-12 (10 weeks) 844 p. 75  45645 Marcounting (Marcounting Marcounting Counting	No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog Page	Bldg
### Pederal Lovernment Accounting [First half] [2] Canada Thurs 6:10-8 St p. 73  ### Pederal Lovernment Accounting For Non-Accountants (3) O'Brien Wed 6:10-8:40 866  ### Designed for those who use financial information rather than the accountant who will cover such nose who use financial information rather than the accountant who will cover such areas as: Information for planning and controlling budgets; budget process; limitations on use of financial data; internal reports; cost/volume/ will cover such areas as: Information for planning and controlling budgets; budget process; limitations on use of financial data; internal reports; cost/volume/ budget process; limitations on use of financial data; internal reports; cost/volume/ budget process; limitations on use of financial data; internal reports; cost/volume/ budget process; limitations on use of financial data; internal reports; cost/volume/ budget process; limitations on use of financial statements; 2) varboly Thurs 6:10-8  #### E6502 Alabeit Utility Procedures and Methods (3) Linday Tues 6:10-8:40 866 and SI materials fee p. 74  #### Logal Administration  #### Internal Control of the Procedure of Property (2) Duncan Tues 6:10-8:40 866 and SI materials fee p. 74  #### Logal Elements of Sale, Rental, and Purchase of Property (2) Duncan Tues 6:10-8:44 p. 75  #### Logal Elements of Sale, Rental, and Purchase of Property (2) Duncan Tues 6:10-8:44 p. 75  #### Logal Elements of Sale, Rental, and Purchase of Property (2) Duncan Tues 6:10-8:44 p. 75  #### Logal Elements of Sale, Rental, and Purchase of Property (2) Duncan Tues 6:10-8:44 p. 75  #### Logal Elements of Sale, Rental, and Purchase of Property (2) Duncan Tues 6:10-8:44 p. 75  #### Logal Elements of Sale, Rental, and Purchase of Property (2) Duncan Tues 6:10-8:44 p. 75  #### Logal Elements of Sale, Rental, and Purchase of Property (2) Duncan Tues 6:10-8:44 p. 76  #### Logal Elements of Sale, Rental, and Purchase of Property (2) Duncan Tues 6:10-8:44 p. 76  #### Logal Elements of Sale, Rental, and Purchas	E6353B	Intermediate Intermediate Advanced Ac	Accounting Accounting	(First Half) (Second Half) (Theory and Pro	(3) Ts f) (3) oblems (	seronis Mo Lutz Tues Second Hal	n 6:10-8 6:10-8:4 f) (3)	:40 \$66 p. 72 40 \$66 p. 73 Sullivan	4′ 4′ 2∶
### PE6434   Managerial Accounting For Non-Accountants (3) O'Brien Wed 6:10-8:40 \$66		Federal Gove	rnment Acc	counting (Firs	t Hall)	(2) Cana	aa wea	6:10-8 \$44 p	. 73
Analysis and Interpretation of Financial Statements (2) Varholy Thurs 6:10-8  1	*E6494	Managerial A (Designed supplies th financial ir will cover budget pro profit relat	for those verification of the such area cess; limits in the such a	who use financi on. Emphasizes can be applied as as: Inform ations on use of d decision maki	al inform class protection to mandation for financians.	nation rath ractice in c aging and or planning al data; in	er than ase stud: decision g and o ternal re	the accountant less to illustrate making. The co- controlling bud eports; cost/volu-	who how ourse gets : ume/
Legal Administration  E6120  Introduction to Law (2) Brewer Mon 6:10-8 \$44 p. 74  E6422B Business Law (Second Half) (2) Monson Sat 9:12 (10 weeks) \$44 p. 75  Legal Elements of Sale, Rental, and Purchase of Property (2) Duncan  Tues 6:10-8 \$44 p. 75  Legal Elements of Sale, Rental, and Purchase of Property (2) Duncan  Tues 6:10-8 \$44 p. 75  Legal Aspects of Investigation—Criminal Evidence and Procedure (2) Michels  The 6:10-8 \$44 p. 75  Legal Aspects of Investigation—Criminal Evidence and Procedure (2) Michels  The 6:10-8 \$45 per 10 per	E6642B	Analysis and	Interpretat	ion of Financia	al Statem	ents (2)	Varholy	Thurs 6:10-8	3 1 1
Legal Administration  E6120  Introduction to Law (2) Brewer Mon 6:10-8 \$44 p. 74  E6422B Business Law (Second Half) (2) Monson Sat 9:12 (10 weeks) \$44 p. 75  Legal Elements of Sale, Rental, and Purchase of Property (2) Duncan  Tues 6:10-8 \$44 p. 75  Legal Elements of Sale, Rental, and Purchase of Property (2) Duncan  Tues 6:10-8 \$44 p. 75  Legal Aspects of Investigation—Criminal Evidence and Procedure (2) Michels  The 6:10-8 \$44 p. 75  Legal Aspects of Investigation—Criminal Evidence and Procedure (2) Michels  The 6:10-8 \$45 per 10 per	E6645B	Federal Inco \$1 material	me Taxes s fee p. 74	(Second Half)	(3) W	ilson Tues	6:10-8:	10 \$66 and	3
E6422 Eage Elements of Sale, Rental, and Purchase of Property (2) Duncan Tues 6:10-8 544 p. 75 E6425 Legal Elements of Sale, Rental, and Purchase of Property (2) Michels Thurs 6:10-8 544 p. 75 E6426 Legal Information for Ventre (2) Duncan Wed 6:10-8 544 E6428 Legal Information for Ventre (2) Duncan Wed 6:10-8 544 E6428 Legal Information for Ventre (2) Duncan Wed 6:10-8 544 E6426 Legal Information for Ventre (2) Duncan Wed 6:10-8 544 E6426 Legal Information for Ventre (2) Duncan Wed 6:10-8 544 E6426 Legal Information for Ventre on available legal information concerning marriages, separation, divorce, alimony, property sales and mortgages, wills and recent developments in law relating to women's rights. Consideration is also given to concepts of civil disobedience and the right to dissent.) E6508 Robert Marchael Legal Examiners and Presiding Officers (2) Baker 544 and 83 materials fee (Discussions and Presiding Officers (2) Baker 544 and 83 materials fee (Discussions and Persiding Officers (2) Baker 544 and 83 materials fee (Discussions and Persiding Officers (2) Baker 544 and 83 materials fee (Discussions and Persiding Officers (2) Baker 544 and 83 materials fee (Discussions Attention will be given to: Prehearing conferences: rules and receipt of evidence; subpoena powers; impartiality; motions and objections. Variances among agencies in rules of practice and procedure and decision writing will be discussed. Course designed for hearing examiners and attorneys who appear before administrative bodies.)  Law and the Family (2) Wagman Mon 6:10-8 44 4mily unit, including marriage (Survey of the eight areas of the law affecting the family unit, including marriage (Survey of the eight areas of the law affecting the family unit, including marriage and Echniques of Management Analysis (Second Half) (3)  O'Brien and Holland Thurs 6:10-8:40 566 p. 76  E6405B Principles and Techniques of Management Analysis (Second Half) (3) O'Brien and Holland Thurs 6:10-8:40 566 p. 76  Successful Supervision (3) Koenig Wed 6:10-8:40 566 p	Legal A								
E6428   Legal Aspects of Investigation—Criminal Evidence and Procedure (2) Michels   Thurs 6:10-8 844 p.75	E6422B	Legal Elemen	its of Sale,	Rental, and P	on 6:10-8 onson S urchase	\$44 p. 7 at 9-12 (1 of Property	4 0 weeks (2) I	\$44 p. 75 Juncan	
Legal Information for Women (2) Duncan Wed 6:10-8 844  (Discussions and lectures on available legal information concerning marriages, separation, divorce, alimony, property sales and mortgages, wills and recent developments in law relating to women's rights. Consideration is also given to concepts of civil disobedience and the right to dissent.)  **E6508** Robert Francisco of Course designed for hearing examiners and Detailing of Course of Course designed for hearing examiners and attorneys who appear before administrative bodies.)  **Law and the Family (2) Wagman Mon 6:10-8 \$44  (Survey of the eight areas of the law affecting the family unit, including marriage mental health, and criminal law. Emphasis on Ingal rights and remedies, or how to get a lesser degree of injustice as one goes through life.)  **Management and Management Analysis**  **Bedoss** Principles and Techniques of Management Analysis (Second Half) (3)  O'Brien and Holland Thurs 6:10-8:40 \$66 p. 76  **E6090** Conduct of Management Analysis (Second Half) (3)  O'Brien and Holland Thurs 6:10-8:40 \$66 p. 76  **E6091** Program Performance Evaluation and Control (3) Hamza Mon 6:10-8:40 \$66  and \$2 materials fee (Designed for Federal, State, and local government officials to further understand of to impowe their effectiveness in evaluation and sportfolling agency programs. It formulate objectives in terms of achievements within acceptable time frames: and mathematical techniques for data analysis. Cases illustrating application of regression and correlation analysis in forecasting and praphic methods of short-term forecasting. Employment of simulation models and methods. Evaluation of effect of social and economic forces, environment, and politics on agency programs. Techniques for displaying program analysis to senior management.)  **Quantitative Approaches to Management Problems (3) Moundalexi  **Pe6488** Labor Negotiations in Government—Prob	E6425	Legal Aspect	s of Investi	gation-Crimir	al Evide	nce and Pr	ocedure	(2) Michels	
materials fee of Hearing Examiners and Presiding Others (2) Baker \$44\$ and \$3  materials fee (Discussions and lectures focusing on the procedural responsibilities of hearing examiners. Attention will be given to: Prehearing conferences: rules and receipt of evidence: subpoena powers: impartiality: motions and objections. Variances among agencies in rules of practice and procedure and decision writing will be discussed. Organization of the procedure and decision writing will be discussed. Organization of the family of the procedure and decision writing will be discussed. (Survey of the eight areas of the law affecting the family unit, including marriage and divorce, rights of the family, children's rights, negligence, contracts, probate, mental health, and criminal law. Emphasis on legal rights and remedies, or how to get a lesser degree of injustice as one goes through life.)  Management and Management Analysis  E6405B Principles and Techniques of Management Analysis (Second Half) (3)  O'Brien and Holland Thurs 6:10-8:40 866 p. 76  E6609 Conduct of Management Surveys (2) Instructor To Be Announced Thurs 6:10-8  844 p. 77  E6201 Successful Supervision (3) Koenig Wed 6:10-8:40 866 p. 77  E6201 Program Performance Evaluation and Control (3) Hamza Mon 6:10-8:40 86  and \$2 materials fee (Designed for Federal, state, and local government officials to further understand or to improve their effectiveness in evaluation and controlling agency programs. Includes cost/benefit analysis against goals and objectives; use of systems concepts to formulate objectives in terms of achievements within acceptable time frames; and mathematical techniques for data analysis. Cases illustrating application of regression and correlation analysis in forecasting and graphic methods of short-term forecasting. Employment of simulation models and methods. Evaluation of regression and economic forces, environment, and politics on agency programs. Techniques for displaying program analyses to senior management.)  E6519 Work Standards and Work M	*E6388	Legal Inform	ation for V	Women (2) I	Ouncan ilable les y sales a rights. (dissent.)	Wed 6:10-8 gal inform nd mortgag Consideratio	\$44 ation co es, wills n is als	ncerning marri and recent dev o given to con	ages, elop- cepts
Law and the Family (2) Wagman Mon 6:10-8 \$44  (Survey of the eight areas of the law affecting the family unit, including marriage and divorce, rights of the family, children's rights, negligence, contracts, probate, mental health, and criminal law. Emphasis on legal rights and remedies, or how to get a lesser degree of injustice as one goes through life.)  Management and Management Analysis  E6405B Principles and Techniques of Management Analysis (Second Half) (3)  O'Brien and Holland Thurs 6:10-8:40 866 p. 76  E6409 S44 p. 77  E6201 Successful Supervision (3) Koenig Wed 6:10-8:40 866 p. 77  Program Performance Evaluation and Control (3) Hamza Mon 6:10-8:40 866  and \$2 materials fee (Designed for Federal, state, and local government officials to further understand or to improve their effectiveness in evaluation and controlling agency programs. Includes cost/benefit analysis against goals and objectives; use of systems concepts to formulate objectives in terms of achievements within acceptable time frames; and mathematical techniques for data analysis. Cases illustrating application of regression and correlation analysis in forecasting and graphic methods of short-term forecasting. Employment of simulation models and methods. Evaluation of effect of social and economic forces, environment, and politics on agency programs. Techniques for displaying program analyses to senior management.)  E6511 Quantitative Approaches to Management Problems (3) Moundalexis  Tues 6:10-8:40 866 p. 78  Personnel Administration  E4114 Federal Personnel Procedure (2) \$44 p. 99  Section 01 Moriarty and Bottone Tues 6:10-8 \$44 p. 78  Organizational Theory and Practice (3) Ward Wed 6:10-8:40 \$66 p. 78  Petsonnel Administration (3) Weithoner and Schulman Wed 6:10-8:40 \$66 p. 79  E6436 Pablic Personnel Administration (3) Weithoner and Schulman Wed 6:10-8:40 \$66 (This course is designed for government supervisors and will provide a brief outline of the Executive Order and policies affecting labor-management relations in the public sector, i	*E6508	materials f (Discussi examiners. evidence; s agencies in Course desi	ing Examinee ons and le Attention subpoena pe rules of p gned for h	ners and President	ing Officer	ers (2) I	daker \$	sibilities of he	avino
E6405B  Conduct of Management Surveys (2) Instructor To Be Announced Thurs 6:10-8 \$44 p. 77  E6201  E6418  Program Performance Evaluation and Control (3) Hamza Mon 6:10-8:40 866  (Designed for Federal, state, and local government officials to further understand or to improve their effectiveness in evaluation and controlling agency programs. Includes cost/benefit analysis against goals and objectives; use of systems concepts to formulate objectives in terms of achievements within acceptable time frames; and mathematical techniques for data analysis. Cases illustrating application of regression and correlation analysis in forecasting and graphic methods of short-term forecasting. Employment of simulation models and methods. Evaluation of effect of social and economic forces, environment, and politics on agency programs. Techniques for displaying program analyses to senior management.)  E6511 Quantitative Approaches to Management Problems (3) Moundalexis  Tues 6:10-8:40 866 p. 78  E6520 Vork Standards and Work Measurement (2) Schneider Tues 6:10-8 844 p. 78  E6530 Organizational Theory and Practice (3) Ward Wed 6:10-8:40 866 p. 78  Personnel Administration  E6430 Public Personnel Administration (3) Weithoner and Schulman Wed 6:10-8:40 866 p. 79  E6430 Public Personnel Administration (3) Weithoner and Schulman Wed 6:10-8:40 866 p. 79  E6438 Labor Negotiations in Government—Problems and Practices of Arbitration for Government Supervisors (3) Instructor To Be Announced Thurs 6:10-8:40 866 (This course is designed for government supervisors and will provide a brief outline of the Executive Order and policies affecting labor-management relations in the public sector, including Mediation and Impass Resolution. Practice will be given in conducting and experiencing negotiations sessions.)  E6436 Management-Employee/Employee-Management Motivation (2) Draheim  Tues 6:10-8 844 p. 80  E6447 Engles Announced Thurs 6:10-8 82  E6448 Employee Benefits: Retirement Plans (2) Landay and Zisman Tues 6:10-8	*E6336	Law and the (Survey and divorce mental hea	Family () of the eight e, rights of lth, and cr	t areas of the l f the family, iminal law. Er	aw affect children's nphasis o	ing the far rights, ne n legal rig	nily unit egligence hts and	, including mar , contracts, pro remedies, or ho	riage bate, ow to
O'Brien and Holland Thurs 6:10-8:40 \$66 p. 76 Conduct of Management Surveys (2) Instructor To Be Announced Thurs 6:10-8 \$44 p. 77 Successful Supervision (3) Koenig Wed 6:10-8:40 \$66 p. 77 Program Performance Evaluation and Control (3) Hamza Mon 6:10-8:40 \$66 and \$2 materials fee (Designed for Federal, state, and local government officials to further understand or to improve their effectiveness in evaluation and controlling agency programs. Includes cost/benefit analysis against goals and objectives: use of systems concepts to formulate objectives in terms of achievements within acceptable time frames; and mathematical techniques for data analysis. Cases illustrating application of regression and correlation analysis in forecasting and graphic methods of short-term forecasting. Employment of simulation models and methods. Evaluation of effect of social and economic forces, environment, and politics on agency programs. Techniques for displaying program analyses to senior management.)  Quantitative Approaches to Management Problems (3) Moundalexis Tues 6:10-8:40 \$66 p. 78  Personnel Administration  E4114 Federal Personnel Procedure (2) \$44 p. 99 Section 01 Moriarty and Bottone Tues 6:10-8 Section 02 Starns Sat 9-12 (10 weeks)  Public Personnel Administration (3) Weithoner and Schulman Wed 6:10-8:40 \$66 p. 79  E6220 Successful Supervision (3) Koenig Wed 6:10-8:40 \$66 p. 77  E6488 Labor Negotiations in Government—Problems and Practices of Arbitration for Government Supervisors (3) Instructor To Be Announced Thurs 6:10-8:40 \$66  (This course is designed for government supervisors and will provide a brief outline of the Executive Order and policies affecting labor-management relations in the public sector, including Mediation and Impass Resolution. Practice will be given in conducting and experiencing negotiations sessions.)  E6436 Management-Employee/Employee-Management Motivation (2) Draheim Tues 6:10-8 \$44 p. 80  Employee Benefits: Retirement Plans (2) Landay and Zisman Tues 6:10-8	Manage	ement and Ma	anagemen	t Analysis					
S44 p. 77 PE6418 Successful Supervision (3) Koenig Wed 6:10-8:40 \$66 p. 77 PE6418 Program Performance Evaluation and Control (3) Hamza Mon 6:10-8:40 \$66 and \$2 materials fee (Designed for Federal, state, and local government officials to further understand or to improve their effectiveness in evaluation and controlling agency programs. Includes cost/benefit analysis against goals and objectives; use of systems concepts to formulate objectives in terms of achievements within acceptable time frames; and mathematical techniques for data analysis. Cases illustrating application of regression and correlation analysis in forecasting and graphic methods of short-term forecasting. Employment of simulation models and methods. Evaluation of effect of social and economic forces, environment, and politics on agency programs. Techniques for displaying program analyses to senior management.)  E6511 Quantitative Approaches to Management Problems (3) Moundalexis Tues 6:10-8:40 \$66 p. 78  E6519 Work Standards and Work Measurement (2) Schneider Tues 6:10-8 \$44 p. 78  E6510 Organizational Theory and Practice (3) Ward Wed 6:10-8:40 \$66 p. 78  Personnel Administration  E4114 Federal Personnel Procedure (2) \$44 p. 99 Section 01 Moriarty and Bottone Tues 6:10-8 Section 02 Starns Sat 9-12 (10 weeks)  Public Personnel Administration (3) Weithoner and Schulman Wed 6:10-8:40 \$66 p. 79  E6480 Public Personnel Administration (3) Weithoner and Schulman Wed 6:10-8:40 \$66 p. 79  Labor Negotiations in Government—Problems and Practices of Arbitration for Government Supervisors (3) Instructor To Be Announced Thurs 6:10-8:40 \$66  (This course is designed for government supervisors and will provide a brief outline of the Executive Order and policies affecting labor-management relations in the public sector, including Mediation and Impass Resolution. Practice will be given in conducting and experiencing negotiations sessions.)  E6436 Management-Employee/Employee-Management Motivation (2) Draheim Tues 6:10-8  E6437 Employee Benefits: Retirement Plan		O'Brien an	d Holland	Thurs 6:10-8:4	0 \$66	p. 76			8
and \$2 materials fee (Designed for Federal, state, and local government officials to further understand or to improve their effectiveness in evaluation and controlling agency programs. Includes cost/benefit analysis against goals and objectives: use of systems concepts to formulate objectives in terms of achievements within acceptable time frames; and mathematical techniques for data analysis. Cases illustrating application of regression and correlation analysis in forecasting and graphic methods of short-term forecasting. Employment of simulation models and methods. Evaluation of effect of social and economic forces, environment, and politics on agency programs. Techniques for displaying program analyses to senior management.)  E6511 Quantitative Approaches to Management Problems (3) Moundalexis  Tues 6:10-8:40 866 p. 78  E6519 Work Standards and Work Measurement (2) Schneider Tues 6:10-8 \$44 p. 78  E6550 Organizational Theory and Practice (3) Ward Wed 6:10-8:40 \$66 p. 78  Personnel Administration  E4114 Federal Personnel Procedure (2) \$44 p. 99 Section 01 Moriarty and Bottone Tues 6:10-8 Section 02 Starns Sat 9-12 (10 weeks)  E6430 Public Personnel Administration (3) Weithoner and Schulman Wed 6:10-8:40 \$66 p. 79  E6481 Labor Negotiations in Government—Problems and Practices of Arbitration for Government Supervisors (3) Instructor To Be Announced Thurs 6:10-8:40 \$66 (This course is designed for government supervisors and will provide a brief outline of the Executive Order and policies affecting labor-management relations in the public sector, including Mediation and Impass Resolution. Practice will be given in conducting and experiencing negotiations sessions.)  E6436 Management-Employee/Employee-Management Motivation (2) Draheim Tues 6:10-8 \$44 p. 80  Employee Benefits: Retirement Plans (2) Landay and Zisman Tues 6:10-8	E6201	\$44 p. 77 Successful Su	pervision	(3) Koenig W	ed 6:10-	8:40 \$66	p. 77		
Tues 6:10-8:40 866 p. 78  E6519 Work Standards and Work Measurement (2) Schneider Tues 6:10-8 \$44 p. 78  E6550 Organizational Theory and Practice (3) Ward Wed 6:10-8:40 \$66 p. 78  Personnel Administration  E4114 Federal Personnel Procedure (2) \$44 p. 99 Section 01 Moriarty and Bottone Tues 6:10-8 Section 02 Starns Sat 9-12 (10 weeks)  Public Personnel Administration (3) Weithoner and Schulman Wed 6:10-8:40 \$66 p. 79  E6201 Successful Supervision (3) Koenig Wed 6:10-8:40 866 p. 77  *E6488 Labor Negotiations in Government—Problems and Practices of Arbitration for Government Supervisors (3) Instructor To Be Announced Thurs 6:10-8:40 866  (This course is designed for government supervisors and will provide a brief outline of the Executive Order and policies affecting labor-management relations in the public sector, including Mediation and Impass Resolution. Practice will be given in conducting and experiencing negotiations sessions.)  E6436 Management-Employee/Employee-Management Motivation (2) Draheim Tues 6:10-8 \$44 p. 80  Employee Benefits: Retirement Plans (2) Landay and Zisman Tues 6:10-8		and \$2 mat (Designe or to import Includes co to formula mathematic and correl casting. Er and econon displaying	erials feed of for Feder cove their set objective al techniquation analymployment forces, program ar	ral, state, and effectiveness is analysis agains s in terms of sees for data and siss in forecas of simulation nenvironment, analyses to seniol	local government goals a chievement alysis. Cating and anodels another manage	vernment of tion and c and objective ints within ses illustrated graphic of d methods. cs on agen ment.)	fficials to ontrollin ves; use acceptal ting app methods Evaluati cy progr	o further under g agency prog of systems con le time frames lication of regre of short-term on of effect of s ams. Technique	rams. acepts ; and ession fore- social es for
Personnel Administration  E4114 Federal Personnel Procedure (2) \$44 p. 99 Section 01 Moriarty and Bottone Tues 6:10-8 Section 02 Starns Sat 9-12 (10 weeks)  E6430 Public Personnel Administration (3) Weithoner and Schulman Wed 6:10-8:40 \$66 p. 79  E6201 Successful Supervision (3) Koenig Wed 6:10-8:40 \$66 p. 77  *E6488 Labor Negotiations in Government—Problems and Practices of Arbitration for Government Supervisors (3) Instructor To Be Announced Thurs 6:10-8:40 \$66 (This course is designed for government supervisors and will provide a brief outline of the Executive Order and policies affecting labor-management relations in the public sector, including Mediation and Impass Resolution. Practice will be given in conducting and experiencing negotiations sessions.)  E6436 Management-Employee/Employee-Management Motivation (2) Draheim Tues 6:10-8 \$44 p. 80  Employee Benefits: Retirement Plans (2) Landay and Zisman Tues 6:10-8	E6511	Quantitative Tues 6:10-8	Approaches 3:40 \$66	s to Manageme p. 78	nt Proble	ems (3)	Moundale	exis	1
E4114 Federal Personnel Procedure (2) 844 p. 99 Section 01 Moriarty and Bottone Tues 6:10-8 Section 02 Starns Sat 9-12 (10 weeks)  E6430 Public Personnel Administration (3) Weithoner and Schulman Wed 6:10-8:40 \$66 p. 79  E6201 Successful Supervision (3) Koenig Wed 6:10-8:40 866 p. 77  Labor Negotiations in Government—Problems and Practices of Arbitration for Government Supervisors (3) Instructor To Be Announced Thurs 6:10-8:40 866 (This course is designed for government supervisors and will provide a brief outline of the Executive Order and policies affecting labor-management relations in the public sector, including Mediation and Impass Resolution. Practice will be given in conducting and experiencing negotiations sessions.)  E6436 Management-Employee/Employee-Management Motivation (2) Draheim Tues 6:10-8 844 p. 80  Employee Benefits: Retirement Plans (2) Landay and Zisman Tues 6:10-8									8
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E6201 Successful Supervision (3) Koenig Wed 6:10-8:40 866 p. 77  E6488 Labor Negotiations in Government—Problems and Practices of Arbitration for Government Supervisors (3) Instructor To Be Announced Thurs 6:10-8:40 866  (This course is designed for government supervisors and will provide a brief outline of the Executive Order and policies affecting labor-management relations in the public sector, including Mediation and Impass Resolution. Practice will be given in conducting and experiencing negotiations sessions.)  E6436 Management-Employee/Employee-Management Motivation (2) Draheim Tues 6:10-8 844 p. 80  E6474 Employee Benefits: Retirement Plans (2) Landay and Zisman Tues 6:10-8	E6430	Public Person				er and Sch	ulman	Wed 6:10-8:40	
conducting and experiencing negotiations sessions.)  E6436 Management-Employee/Employee-Management Motivation (2) Draheim Tues 6:10-8 844 p. 80  E6474 Employee Benefits: Retirement Plans (2) Landay and Zisman Tues 6:10-8		Successful Su Labor Negoti Governmen (This cou of the Expublic sect	ations in G t Supervisourse is design ecutive Ordor, includin	overnment—Pr rs (3) Instru gned for govern der and policie g Mediation a	coblems a actor To I ment sur as affecti and Impas	nd Practice Be Announce pervisors and ng labor-mess Resolution	es of Arl	rs 6:10-8:40 \$6	6 utline n the en in
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	E6474	Tues 6:10-8	3 \$44 p. 8	30					2

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee Ca	atalog Pas	ge Bl	ldg.
E6305 E7446			ment (3) Go (3) Brady T						2
E6444 *E6447	p. 122 Position Class Advanced Tec Tues 6:10-8 (This cot ranking/Bet indings an evaluation : ers selection tative techn ships with personnel a Classificatio	sification hniques of \$44 arse exploinchmark r d recomme and pay a of job ev iques; and employmei dministrat n, or E645	(2) McCarthy Job Evaluations and testing of a lundations of I and testing of aluation factor use of Benchint, employee (cion. Prerequis 100 Public Pers	job evalueing consuegislative the factors; developmersite: Satie	cher Wed 6 Suskin and A ation techniq idered for the and Execut -ranking/Ber pment of guition descripti n, labor rela sfactory com	:10-8 \$44 .ssociates ues, include ne public : ive Branch ichmark m de charts, i ons. Explor ations, and pletion of	p. 81  ding the factories. In a groups of the central	ncludes on job c. Cov- quanti- lation- eas of osition	14
E6512	\$66 p. 82	and Placer	ment (3) Lo						2
E6518 E7597	Counseling Te	chniques	Development I (3) Corns	weet Mo	n 6:10-8:40	\$66 p. 12	5 \$66 p.	82	1
	ement and Pro	•	_						
E4113 E4115		nasing Pro	dure (2) Mc cedure (2)				\$3		
E6364 E6374	Federal Contr materials fe	acting (2 e p. 83	) Bauer, Smi ent Contractin		elch Wed 6:				
	Administration		ent Contractin	g (2) I	ourns Tues (	0:10 <del>-</del> 0 544	p. 64		
E6341			ernment (3)	Frederic	Mon 6:10-8	:40 \$66 r	. 84		
E6344 E6560	Dynamics of Instructor	Intergover To Be Anno	Administration Administration nmental Coope ounced Mon 6 over key Feder intergovernme	ration in -8:30 \$6	the 1970's	(3)	6.1.1	leading romises	
E6484	and pitfalls Seminar in C (An explorations. Discuthe future	Guest specific on temporal oration, the sistension of power	over key reder intergovernmer intergovernmer rakers drawn f ry Political P rough reading l vary weekly movements [ issues such as	rom the V roblems s and dis- from gr the 1970	Vashington co (3) Johnson cussions, of coassroot Amer 's sophisticat	mmunity.) Wed 6:1 ontemporar rican contr ed method	0-8:40 \$6 ry politica coversies s of main	6 l ques- uch as taining	
E6515 E6400	Congressional Administrativ	Procedure e Operation	e (2) Hall ons for Congre	Wed 6:10	-8 \$44 p. 8	5		itries.)	
E6490	School Finand Tues 6:10-8 (The pur development axation are current into in the finand erty tax for yes. state configurations of court che	see Reform- \$44 pose of thit t and reford revenue erest, such acing of por or schools so ontrol, fisc allenges to	\$44 p. 85 —Current Issu is course will iborm of existing distribution was equalizatio tublic education support, conce al problems co existing syster Mierzwa Mon	be to examine to examine the contract of reso to the contract of accommon of public contract of public contract of accommon o	mine various of public so de the contex urces. Chang of the equity countability c cities, and lic school fina	assumption chool finan it for cons ing intergo and adequ and school the bases a	as implicit ce. Princi idering issovernmenta accy of the spending. and consec	Local quences	
E6445 E6600	Readings in I	Public Adm	Mierzwa Mon and Solutions inistration (S	3) To Be	Arranged \$	66 p. 87	00 p. 80		
Mather	natice	M	IATHEMATIC	S AND	STATISTIC	S			
E3101 E3008 E3001B	Everyday Ma Intermediate	Algebra	(2) Mouser (non-credit)	Butler W	red 6:10-8:40	\$66 p. 8			
E3002 E3102 E3206A E3206B E3415 E3500B	Review of Ca College Algel Calculus (Fi Calculus (Se Elementary M Topics in Hig	cond Half rst Half) cond Half fatrix The cher Appli	man Mathematic 1844 p. 89 on-credit Do Gordon Mon (4) Masalin (4) Plait ory (3) Gamed Mathematic	ugherty and Wed Mon an Tues and abino Mo s (Secon	Tues 6:10-8:46:10-8:40 Wed 6:10-8:40 Thurs 6:10-8:40 d Half) (3)	10 \$66 p. p. 89 \$88 p. 8 \$88 p. \$66 p. 90 Trayers	90 90		
E3310E	Introduction Mon 6:10-8	to Probab	ility Theory ( p. 91	Second H	(a) B	exfield			
E3509B E3574 E3534	\$66 p. 92 Advanced Top Mathematical \$66 p. 93	pics in Lin Methods	mists (Second lear Programm in Operations	ring (3) Research	Mylander 'II (3) Mil	Wed 6:10-8 ler Mon 6	3:40 \$66 5:10-8:40	p. 93	
Statisti									
E3006	Preparatory	Mathemati	cs for Introdu	ctory Stat	istics (non-c	redit) Fr	eie		
*E3412 E3126A	Introductory Section 01	Experimen Statistics Addison	93 (tal Research 1 (First Half) Mon 6:10-8:4 ed 6:10-8:40	(3) \$66 0	Huddleston T p. 93	hurs 6:10-	8:40		

No.	Course Title (Cr.) Instructor Day Time Fee Catalog Page	Bldg.
E3126B E3380B		1 1
E3385B	\$66 p. 94 Elements of Statistical Methods (Second Half) (2) McGuire Tues 4:45-6:35	12
E3400B		7
E3404B	Tues 6:10-8:40 \$66 p. 95	6
E3145	\$66 p. 95 Introduction to Survey Methods (2) Kafka Tues 6:10-8 \$44 and \$2 materials fee p. 97	8
E3735B	\$44 and \$2 materials fee p. 97 Theory of Sample Surveys (Second Half) (2) Steinberg and Waksberg Wed 6:10-8 \$44 p. 97	6
E9762	Electronic Computer Methods for Statisticians (3) Marcus Thurs 6:10-8:40 \$66 p. 68	6
A desimi	OFFICE TECHNIQUES AND OPERATIONS	
	strative Procedures	
E4108	Administrative Procedure (3) \$66 p. 98 Section 01 Wright Tues 6:10-8:40 Section 02 Nishimoto Sat 9-1 (10 weeks)	1
E6201 E4206	Successful Supervision (3) Koenig Wed 6:10-8:40 \$66 p. 77 Essentials of Good Office Management (3) Wagner Wed 6:10-8:40 \$66	1 1 5 1
E4112A	Federal Fiscal Procedure (First Half) (2) Finotti Mon 6:10-8 \$44 p. 99	7 6
E4112B E4113	Federal Property Procedure (2) McElroy Tues 6:10-8 \$44 p. 99	1
E4114	Federal Fiscal Procedure (First Half) (2) Finotti Mon 6:10-8 \$44 p. 99 Federal Fiscal Procedure (Second Half) (2) Robbins Wed 6:10-8 \$44 p. 99 Federal Property Procedure (2) McElroy Tues 6:10-8 \$44 p. 99 Federal Personnel Procedure (2) \$44 p. 99 Section 01 Moriarty and Bottone Tu-s 6:10-8 Section 02 Starns Sat 9-12 (10 weeks) Federal Purchasing Procedure (2) McCloskey Mon 6:10-8 \$44 and \$3 metavisk fee p. 99	1 1 1
E4115	ψπα and ψο materials rec p. σο	1
E4116	Federal Budgetary Procedure: Formulation and Presentation (2) \$44 p. 99 Section 01 Johnson Tues 6:10-8 Section 02 Hoadley Wed 6:10-8	7
E4118	Section 02 Hoadley Wed 6:10-8 Federal Budgetary Procedure: Execution and Fund Control (2) Bartolomeo Mon 6:10-8 \$44 p. 100	7 11
E4217 E4330	Advanced Records Management (3) Brader Tues 6:10-8:40 \$66 p. 100 Government Letter Writing (2) Noordhoff Tues 6:10-8 \$44 and \$2 materials fee p. 101	9
Typing		
E4125	Beginning Typing (3) \$66 p. 101	
E4126	Beginning Typing (3) \$66 p. 101 Section 01 Vaughan Mon and Wed 5:45-7:15 Section 02 Singletary Tues and Thurs 5:45-7:15 Intermediate Typing (3) Singletary Tues and Thurs 7:30-9 \$66 and \$10 laboratory fee p. 101	1 1 1
Shortha	and Common Commo	
E4129	Gregg Shorthand I (3) \$66 p. 102	25
	Section 01 Vallieres Mon and Thurs 6:10-7:30 Section 02 Fritz Mon and Thurs 6:10-7:30 Section 03 Murphy Sat 9-12 Gregg Shorthand II (3) \$66 p. 102	35 7 1
E4130	Gregg Shorthand II (3) \$66 p. 102 Section 01 Gros Mon and Thurs 6:10-7:30 Section 02 Payton Tues and Thurs 6:10-7:30	7
E4225	Gregg Shorthand III (60-80 Words) (3) Boxley Mon and Thurs 6:10-7:30	7
E4226	\$66 p. 102 Gregg Shorthand IV (80-100 Words) (3) Boardman Mon and Wed 6:10-7:30 \$66 p. 103	11
Genera	PHYSICAL SCIENCES	
E5035	Exploration of the Universe—Study Discussion Group (non-credit)	6
E5175B E5596B	Schulman Mon 6:10-8 (10 weeks) \$30 p. 104 General Astronomy (Second Half) (3) Fiala Tues 6:30-9 \$66 p. 104	36
E5501	Mon 6:10-8:40 \$66 p. 105  Biologically Active Chemicals—Chemistry of Drugs (3) Benson	3
	Tues 6:10-8:40 \$66 p. 106	
	try and Physics	
E5100B E5320B E5406 *E5335	General Chemistry (Second Half) (3) Turner Tues 6:10-8:40 \$66 p. 106 Basic Biochemistry (Second Half) (2) Feinstein Tues 5:10-7 \$44 p. 107 Nutritional Biochemistry (2) Adkins Mon 6:10-8 \$44 p. 107 Principles of Geochemistry (3) Johnson Thurs 5:30-8 \$66 (Principles and theories on the abundance, relationships, and distribution of the elements in various rock and mineral species. Prerequisite: E5100 General Chemistry	11 40 1 34
	(Principles and theories on the abundance, relationships, and distribution of the elements in various rock and mineral species. Prerequisite: E5100 General Chemistry or concurrent registration, or permission of instructor.)	,
E5155 <b>B</b> E5501	or concurrent registration, or permission of instructor.) Principles of Physics (Second Half) (3) Smith Tues 6:10-8:40 \$66 p. 108 Biologically Active Chemicals—Chemistry of Drugs (3) Benson Tues 6:10-8:40 \$66 p. 106	1 3

No.	Course Title	(Cr.)	Instructor	Day	Time	Fee	Catalog Page	Bldg.
Geogra	aphy and Geol	ogy						
E5102	Introductory (	Geography	(2) Instruct	or To Be	Announce	d Mon	3:10-8 \$44	6
E5204 E8408	Historical Geo		Loomis Wed raphic Interpre				6:10-8:40	7
Meteor E5326		rology (3	3) Greene Tu	es 4:45-7	:15 \$66 ]	p. 110		55
Ocean	ography							
*E5399	jection, scal the marine effects of r Observation Tides and t navigation.	e, coordin chart and efraction. al errors idal curre Time and nanac and	ates, topograph d limitations o Optical princi and their cor nts. Line of po its use in na	ic and h f buoyag ples of t rection. sition co vigation.	ydrographi e systems. he sextant Introduction ncepts for Basic cele	c feature The ge ; princi on to co piloting, estial nav	:20 \$44  chart, including process. Measurements or ometry of piloting ples of the vernier ompass adjustments celestial, and radic vigation; use of the adio waves and their	1 ; o
*E5433	Sonar Instrum (Designed tions, and urement techniques)	to teach wave propeniques:	agation. Topics calibration of	ital expe include transduc	rimental of Dynamic cers; meas	instrum urement merit in	in acoustics, vibra entation and meas of ambient noise laboratory and field	- :
E5476 E5584	Applied Under Physical Prop	water Sou erties of S	ind (3) Barro Sea Water (2)	n Thur Paulus	s 5:30-8 \$ Fri 5-7	\$66 p. 13 \$44 p. 1	12 .12	37 37
E5549 E5658	(NOIE d	eletion of	ude laser interfind (3) Barro lea Water (2) (2) Anderse phy (3) Weis prerequisite:	n Mon 5 s Tues ! Profession	-7 \$44 p. 5:30-8 \$66 onal know	. 113 p. 113 ledge of	geology or ocean	37 1
*E5657	regions and polar seas a research. Re will be emp	raphy (3 ent status processes and world ecent deve phasized.	is reviewed. oceans, sea ice elopments and The course is	Major to , and the changing designed	opics will utilization interests, to familia	include n of rem particul rize rese	description of polar interaction between ote sensors in polar larly in the Arctic archers and laymen iation for the com	1 r ,
E5480 *E5706	plex problen Marine Photog Ocean Engine	ns associat grammetry		anding a Wed 5-7:	nd intellig 30 \$66 p	ently util . 114	izing these regions.	
E5666B *E5667	p. 114 Biological Ocea Ocean Law (		(Second Half Wed 6:10-8	(2) I \$44 p.	Houbrick 115	Wed 6:10	9-8 \$44 p. 115	7 1
		soc	IAL AND BE	HAVIOR	AL SCIE	NCES		
Econor		Faamamiaa	(First Half)	(2) D.	alsin Tuos	6.10 8.	10 °CC ~ 116	8
E7201B E7548B	Principles of I Principles of I Intermediate F \$66 p. 117	Economics Economic A	(Second Half) Analysis (Seco	(3) S nd Half)	Shapiro Tues (3) Edv	res 6:10-8	10 \$66 p. 116 3:40 \$66 p. 116 ues 6:10-8:40	4 5
E3509B		or Econom	ists (Second )	Half) (3	) Rojko	Thurs 6	:10-8:40 \$66	7
E7476 E7526	Public Finance		al Policy (3) ional Economics					1
E8474	Engineering E p. 134	conomics	(3) Crawford	Tues 6	:10-8:40	866 and \$	2 materials fee	5
E7336	Agriculture's 1 Tues 6:10-8:	Role in Ec 40 \$66 1	onomic Growth o. 119	and Dev	elopment	(3) We	st and Willett	5
E7528	International 'p. 120	Trade and	Commercial Po	olicy (3)	Schwart	z Mon (	5:10-8:40 \$66	7
E7532B	International I	Marketing	and National	Export E	xpansion	(Second	Half) (3)	15
*E7117	(Fundame and bases fo	ntal princ or invest <b>n</b>	40 \$66 p. 120 (2) Picard V iples of investi ent decisions.	ng in se Tools of	curities, ir analysis f	icluding or invest	classes of securities ors, such as under-	11
E6474	Employee Bene \$44 p. 81	ancial state efits: Reti	ements. Securit rement Plans	ies marke (2) Lan	ts and how day and Z	they ope isman T	erate.) 'ues 6:10-8	28
	Relations							
E7210 E7235 E7446	General Psychological Introductory S Personnel Psychological Psychological International Internation	ology (3) ocial Psyc chology (	de Haan W hology (3) F 3) Brady Th	ed 6:10-8 oote Mo urs 6:10-	:40 \$66 n 6:10-8:4 8:40 \$66	p. 122 0 \$66 ] and \$2 la	o. 122 aboratory fee	1 11 7
E7442	p. 122 Problems in L	iving and	Personality an					11
E7541	Wed 6:10-8: Improving Hu	man Relat	ions and Group	Behavio	r (2) Ma	arquardt	Mon 6:10-8	6
*E7602	\$44 and \$2 n Transactional (Discussion of "I'm OK,	Analysis	(3) Instructor	To Be	Announce play, and a	d Mon opplication Games P	6:10-8:40 \$66 ns to work and life eople Play" by Eric	1
E7600	Berne, M.D. Readings in H	and relat	ed readings.) tions (3) Kra	aus To I	Be Arrange	d \$66	p. 124	

No.	Course Title (Cr.) Instructor Day Time Fee Catalog Page	Bldg.
E7577	Basic Principles and Methods of Rehabilitation (2) Cavanaugh Tues 6:10-8	10
E7303	\$44 p. 124 Child and Adolescent Psychology (2) Stammeyer Tues 6:10-8 \$44 p. 124	48
*E7327 E7710	Child and Adolescent Psychology (2) Stammeyer Tues 6:10-8 \$44 p. 124 Psychology of the Mentally Retarded (2) Mitra Thurs 6:10-8 \$44 p. 124 Abnormal Psychology (3) Kyriazis Tues 6:10-8:40 \$66 p. 125	1
E7466	General Semantics—Seminar (2) Eldridge Wed 7:10-9 844 p. 125 Counseling Techniques II (3) Cornsweet Mon 6:10-8:40 866 p. 125 The Crime Problem (3) Kramer Sat 9-1 (10 weeks) 866 p. 126	57
E7597 E7549	The Crime Problem (3) Kramer Sat 9-1 (10 weeks) \$66 p. 126	11
E7115B	p. 127 [Introduction to Sociology (Second Half) (3) Weinstein Thurs 6:10-8:40 866	56
E7640 *E7566	Sociology of Health and Illness (3) Kramer Mon 6:10-8:40 \$66 p. 127 Conflict and Conflict Resolution in Man, Society, and International Relations	1
	(3) Dunne Sat 9-11:30 \$66 p. 130 (This course provides an opportunity to develop one's understanding of conflict resolution and to explore the relationships between various levels of conflict and conflict resolution. The details of the program (areas to be emphasized, format of class sessions, criteria for grades, etc.) are developed by the participants as a group.)	
	ional Relations	
*E7019	Great Decisions—1973 (non-credit) Holden Thurs 6:10-8 (8 weeks) \$22 (Topics include: (1) The Sino-Soviet-American Triangle: Toward a New Balance of Power?; (2) The Mass Media and Foreign Policy: What Limits on the Public's Right to Know?; (3) Japan: Partner or Rival?; (4) White Rule in Black Africa: Which Side Are We On?; (5) The Common Market Expands: Can the U.S. Compete?; (6) Man on Earth: Can He Control His Environment?; (7) Canada, Latin America, and the U.S.: Are We Exploiting Our Neighbors?; (8) Egypt After the	1
E7526	America, and the U.S.: Are We Exploiting Our Neighbors?: (8) Egypt After the Soviet Withdrawal: Can "No-War/No-Peace" Continue in the Middle East?) Introduction to International Economics (3) Singleton and Gray Fri 6:10-8:40	1
E7528	\$66 p. 119 International Trade and Commercial Policy (3) Schwartz Mon 6:10-8:40 \$66 p. 120	7
E7538 *E7566	World Population Trends and Problems (3) Baum Tues 6:10-8:40 866 p. 129 Conflict and Conflict Resolution in Man, Society, and International Relations (3) Dunne Sat 9-11:30 866 p. 130	6 1
	(This course provides an opportunity to develop one's understanding of conflict and conflict resolution and to explore the relationships between various levels of conflict and conflict resolution. The details of the program (areas to be emphasized, format of class sessions, criteria for grades, etc.) are developed by the participants as a group.)	
E7499 E7020	China: Past and Present (3) Ristaino Wed 6:10-8:40 \$66 p. 130 World Politics—Study Discussion Group (non-credit) Sweeney Wed 6:10-8 \$44 p. 131	<b>3</b> 0 5
America	an History	
E7251	American History Since 1865 (3) Rasmussen Wed 6:10-8:40 \$66 p. 131	1
Enginee	TECHNOLOGY	
E8092	Review of Engineering Fundamentals for P. E. Examination (non-credit) Rixse	1
	Wed 6:10-8:40 \$66 p. 132	_
E8093	Civil Engineering Review for P. E. Examination (non-credit) O'Fallon Mon 6:10-8:40 \$66 and \$3 materials fee p. 132	7
E8095	Electrical Engineering Review for P. E. Examination (non-credit) Jessel, Gill, and Thomas Wed 6:10-8:40 \$66 p. 132	21
E8311B	Navai Architecture and Marine Engineering (Second Halt) (3) Kerr	7
E8730 E8474	Wed 6:10-8:40 866 p. 134 Introduction to Systems Engineering (2) Thompson Mon 6:10-8 \$44 p. 134 Engineering Economics (3) Crawford Tues 6:10-8:40 \$66 and \$2 materials fee	1 5
E8416	p. 134 Introduction to Thermodynamics (3) Awl Tues 6:10-8:40 \$66 p. 135	1
E8417 E8714	Introduction to Hydraulics (3) Awl Sat 9-11:30 \$66 p. 136  Heating, Ventilating, and Air Conditioning (3) Hollander Tues 6:10-8:40	1 4
E8698	\$66 p. 136 Traffic Planning and Operations (3) Gillam Wed 6:10-8:40 \$66 p. 137	11
Fine Art	S	
E8320	Pencil Sketching and Water Color Painting (2) Cupoli Mon 6:10-8:40	16
E8351 E8338 E8323	\$66 and \$5 laboratory fee p. 137 Oil Painting (2) Cupoli Wed 6:10-8:40 \$66 and \$5 laboratory fee p. 137 Life Sketching (2) Cupoli Thurs 6:10-8:40 \$66 and \$10 laboratory fee p. 137 Portrait Painting (2) McKenna Mon 6:10-8:40 \$66 and \$5 laboratory fee	16 16 1
E8374	p. 137 Contemporary Painting (2) Rudd Wed 6:10-8:40 \$66 and \$10 laboratory fee p. 137	58
E8366	Anatomy of Creative Art (2) Cohen Thurs 6:10-8:40 \$66 and \$5 laboratory fee p. 137	1
E8357 E8371 E8245	Etching (2) Sirica Wed 6:10-8:40 866 and \$10 laboratory fee p. 138 Sculpture (2) Rudd Thurs 6:10-8:40 866 and \$10 laboratory fee p. 138 Pottery (2) 866 and \$25 laboratory fee p. 138	59 58
	Section 01 Hinckley Tues 6-8:30 Section 02 Hinckley Fri 8:30-11 Jewelry Making (2) Gordon Wed 6:10-8:40 866 and \$35 laboratory fee (includes cost of silver) p. 138	25 25
*E8168 *E8088	(includes cost of silver) p. 138  (am Stone Workshop (post-work) Familiary Man Colo 8 844	60
20088	Gem Stone Workshop (non-credit) Farringer Mon 6:10-8 \$44 (Practical course for mineral hobbiests and laymen who want to increase their knowledge of gem stones. The course will deal with diamonds and colored stones such as rubies, sapphires, topaz, tourmaline, amethyst, and amber, as well as imitations and synthetics.)	1
	und symmetres.)	

No.	Course Title (Cr.) Instructor Day Time Fee Catalog Page	Bldg.
E8336 E8372	American Art (3) Murray Thurs 6:10-8:40 \$66 p. 139 African Art and Culture (3) Hommel and Associates Wed 6:10-8:40	$\begin{array}{c} 1 \\ 32 \end{array}$
E8112	\$66 p. 139 Small Domestic Buildings: Their Design and Construction or Restoration (3) Van Sweden Wed 6:10-8:40 \$66 and \$2 laboratory fee p. 140	1
E8285	Landscape Use of Trees, Shrubs, Vines, and Flowers (2) Pledger	1
E8370	Thurs 6:10-8 \$44 p. 140 Music Appreciation (3) Shortridge Wed 6:10-8:40 \$66 and \$5 laboratory fee p. 140	1
*E8378	Theater Art Seminar (2) Munroe Mon 6:10-8 \$44 and \$40 laboratory fee (includes cost of theater tickets)	5
	(Studies in theatrical production involving literature, aesthetics, and mechanics. Contributions of the playwright, actor, director, and designer examined through lectures, visiting artists, class discussions, and attendance at theatrical performances. Involves attending 10 to 12 professional and semi-professional productions in the Washington area theaters.)	
E8373	Motion Picture Appreciation (2) Spehr Tues 6:10-8 \$44 and \$10 laboratory fee p. 141	30
E8055	Introduction to Interior Design (non-credit) Meyer Thurs 6:10-8 \$44 p. 141	1
Graphi	c Arts	
E2188B	Wod 6 10 9 844 p 44	1
E2179 E2186	Environmental Design (2) Granahan Wed 6:10-8 \$44 p. 44 Creative Illustration (2) Auld Tues 6:10-8 \$44 p. 44 Art, Layout, and Design for Reproduction (2) Robinson and Taylor	1 14
E2311	Art, Layout, and Design for Reproduction (2) Robinson and Taylor Tues 6:10-8 \$44 p. 45	2
E2185 E2180	Layout in Visual Communication (2) Jessup Mon 6:10-8 \$44 p. 45	5
E2182 E2181	Creative Design (2) Baka Tues 6:10-8 \$44 p. 45 Exhibit Design and Fabrication (2) Schleyer Tues 6:10-8 \$44 p. 45 Production and Management of Graphics (2) Hopewell Mon 6:10-8 \$44 p. 45	1 4
E2237	Printing, Layout, and Design (2) Murow and Associates Tues 6:10-8 \$44 p. 47	ĩ
Photog	raphy and Lithography	
E8070	Introduction to Photography (non-credit) \$44 and \$5 laboratory fee p. 142	
	Section 01 Page Mon 6:10-8 Section 02 McCullough Wed 6:10-8 Section 03 McCullough Thurs 6:10-8 Section 04 Jones Sat 10-11:50	1 1 1 1
E8192 E8193	Fundamentals of Photography I (2) Szeluga Wed 6:10-8 \$44 p. 142 Practice of Photography I (3) \$66 and \$4 laboratory fee p. 142 Section 01 Fuller Mon 6:30-9 Section 02 Fune Tues 6:10-8:40	1
20100	Section 01 Fuller Mon 6:30-9	38 1
E8195	Fundamentals of Photography II (2) Merritt Mon 6:10-8 \$44 p. 142  Practice of Photography II (3) Fuller Tues 6:30-9 \$66 and \$5	1 38
E8196 E8199	laboratory fee p. 142	38
*E8380	Practice of Photography III (3) Fuller Wed 6:30-9 \$66 and \$6 laboratory fee p. 142	30
*E0000	Portrait Photography Workshop (3) \$66 and \$10 laboratory fee p. 143 Section 01 Hughes Wed 6:10-8:40 Section 02 Purdy Thurs 6:10-8:40	1
E8270A	Color Photography and Printing (First Half) (3) Rodbell Thurs 6:10-8:40	51
E8270B	Color Photography and Printing (First Half) (3) Rodbell Thurs 6:10-8:40 \$66 and \$18 laboratory fee p. 143 Color Photography and Printing (Second Half) (3) Rodbell Tues 6:10-8:40	51
E8295	\$66 and \$18 laboratory fee p. 143  Mechanics and Kinetics of Photographic Process (3) Salerno Tues 6:10-8:40	4
E8197	\$66 p. 143 Creative Photography through Composition II (2) Miller Mon 6:10-8 \$44 and	1
E8198	\$2 laboratory fee p. 144 Photojournalism (2) Forte and Warren Mon 6:10-8 \$44 p. 144	1
E8011 E8165B	Photographic Roundtable (non-credit) To Be Arranged \$5 p. 144 Copy Preparation: Pasteup and Photographic Workshop (Second Half) (3)	19
E8170B	Born Tues 6:10-8:40 \$66 and \$25 laboratory fee p. 145 Survey of Lithography (Second Half) (3) Reznikoff Thurs 6:10-8:40	39
E8171B	\$66 p. 145 Offset Stripping and Negative Work (Second Half) (3) Gervasio	19
E8174B	Wed 6:10-8:40 \$66 and \$15 laboratory fee p. 145 Offset Photography (Second Half) (3) Rankin Thurs 6:10-8:40 \$66 and \$10 laboratory fee p. 145	19
Photog	rammetry	
E8120 E8252	Introduction to Photogrammetry (2) McEwen Mon 6:10-8 \$44 p. 147 Basic Photogrammetry II (3) McLaurin and Stephens Wed 6:10-8:40 \$66 p. 148	61 22
E8408	Advanced Aerial Photographic Interpretation (3) Chisnell Wed 6:10-8:40 \$66 p. 148	7
E8428	Advanced Remote Sensing (3) Simonett Mon 6:10-8:40 \$66 and \$2 materials fee p. 149	17
Cartogi	anhy	
E8125	Cartography I (3) Foster Thurs 6:10-8:40 \$66 p. 149	1
*E8228	Relief Shading (3) Toth Wed 6:10-8:40 \$66 and \$8 laboratory fee p. 149	9
E8240	Cartographic Techniques and Map Reproduction (3) Basile Tues 6:10-8:40 \$66 and \$1 materials fee p. 150	1
E8223	Map Projections and Grid Systems (3) Basile Thurs 6:10-8:40 \$66 and \$2 materials fee p. 150	1

<sup>\*</sup>New course

# SOUTHWEST Buildings - GRADUATE SCHOOL, USDA



- 1 Agriculture 14th and Independence Ave., S.W.
- 2 FOB 6 (Office of Education) 400 Maryland Avenue, S.W.
- 3 FOB 8 (Food and Drug) 2nd and C Streets, S.W.
- 4 General Services Administration (GSA) Regional Office Building (ROB) 7th and D Streets, S.W.
- **5** Group Health Insurance 500 12th Street, S.W.

- 6 Health, Education and Welfare (HEW North) 4th and Independence Avenue, S.W.
- Housing and Urban Development (HUD) 451 7th Street, S.W.
- 8 Nassif Building (BOT) 400 7th Street, S.W. (INSIDE PARKING)
- **9** National Aeronautics and Space Adm. (NASA) 600 Independence Avenue, S.W.
- 10 Reporters Building 300 7th Street, S.W.
- Department of Transportation (FAA) 800 Independence Avenue, S.W. (INSIDE PARKING)

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PARKING: Spaces around Federal buildings are generally available for student parking after normal working hours. Be sure not to block the exit of officials working late!

### BUSINESS OFFICE Graduate School U. S. DEPARTMENT OF AGRICULTURE Washington, D. C. 20250

Deadline for Registration by Mail December 29, 1972

### REGISTRATION FORM

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## U. S. DEPARTMENT OF AGRICULTURE GRADUATE SCHOOL WASHINGTON, D. C. 20250

1973 SPRING SCHEDULE OF CLASSES

